	Application No.	Applicant(s)
Notice of Allowability	09/905,199	HACHIYA ET AL.
	Examiner	Art Unit
	Paulos M. Natnael	2614
The MAILING DATE of this communication and All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in 35) or other appropriate communication is s	this application. If not included inication will be mailed in due course. <b>THIS</b>
1. $\boxtimes$ This communication is responsive to <u>RCE and IDS rece</u>	ived 2 July 2004, respectively,	and IDS received 8 June 2004.
2. The allowed claim(s) is/are <u>1-3</u> .		
3. The drawings filed on 16 July 2001 and 29 February 20	04 are accepted by the Examin	er.
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents hat</li> <li>2. ☐ Certified copies of the priority documents hat</li> <li>3. ☐ Copies of the certified copies of the priority International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	ave been received. ave been received in Applicatio	n No
Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDO THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be su INFORMAL PATENT APPLICATION (PTO-152) which (		
6. CORRECTED DRAWINGS ( as "replacement sheets") n  (a) including changes required by the Notice of Draftsp  1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examin Paper No./Mail Date  ldentifying indicia such as the application number (see 37 CF each sheet. Replacement sheet(s) should be labeled as such	erson's Patent Drawing Review  er's Amendment / Comment or R 1.84(c)) should be written on the	in the Office action of ne drawings in the front (not the back) of
7. DEPOSIT OF and/or INFORMATION about the de attached Examiner's comment regarding REQUIREMEN		
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-94)  3. Information Disclosure Statements (PTO-1449 or PTO/S Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Depos of Biological Material	8) 6. ☐ Interview St Paper No./ B/08), 7. ☐ Examiner's	formal Patent Application (PTO-152)  ummary (PTO-413),  Mail Date  Amendment/Comment  Statement of Reasons for Allowance
		PRIMARY EXAMINER

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## **DETAILED ACTION**

## Allowable Subject Matter

- 1. Claims **1-13** are allowed.
- 2. The following is an examiner's statement of reasons for allowance: the prior art fails to disclose a clipping circuit comprising a clipper for clipping a target signal, a subtractor, a minimum value setter and maximum value setter, wherein, when the data value of the target signal fed to the clipper falls within the range of data values set for the target signal by the maximum value and minimum value setters, the target signal is output intact, when the data value of the target signal fed to the clipper is smaller than the minimum value, the target signal is output after being clipped at the minimum value, and, when the data value of the target signal fed to the clipper is greater than the maximum value, the target signal is output after being clipped at the maximum value, as in claims 1 and 2;

a range setting circuit for comparing, for each of image signals obtained from individual pixels, a data value of a target image signal obtained from a pixel targeted by the edge enhancement with each of data values of two adjacent image signals obtained from pixels adjacent to the targeted pixel to set a range of data values in which the data value of the target image signal is allowed to vary by setting as a maximum value the data value of one of the two adjacent image signals whose data value is greater than the data value of the target image signal and setting as a minimum value the data value of one of the two adjacent image signals whose data value is smaller than the data value of the target image signal, as in claims 3 and 7;

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paulos M. Natnael whose telephone number is (703) 305-0019. The examiner can normally be reached on 9:00am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Miller can be reached on (703) 305-4795. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PMN Thu October 19, 2004

MICHAEL <del>N. LE</del>E PRIMARY EXAMINER